

Title (en)
ARRANGEMENT AND METHOD FOR HEATING OF A MAGNETIC MATERIAL

Title (de)
ANORDNUNG UND VERFAHREN ZUR ERWÄRMUNG EINES MAGNETMATERIALS

Title (fr)
DISPOSITIF ET PROCÉDÉ DE CHAUFFAGE D'UN MATÉRIAU MAGNÉTIQUE

Publication
EP 2427108 A1 20120314 (EN)

Application
EP 10717814 A 20100419

Priority
• IB 2010051699 W 20100419
• EP 09159802 A 20090508
• EP 10717814 A 20100419

Abstract (en)
[origin: WO2010128418A1] The present invention relates to an arrangement (10) for heating of a magnetic material (100) located in the centre region of an inscribed sphere within a region of action, which arrangement comprises: - selection means (210) for generating a magnetic selection field (211) having a pattern in space of its magnetic field strength such that a first sub-zone (301) having a low magnetic field strength and a second sub-zone (302) having a higher magnetic field strength are formed in the region of action (300), - drive means (220) for changing the position in space of the two sub-zones (301, 302) in the region of action (300) by means of a magnetic drive field (221) so that the magnetization of the magnetic material (100) changes locally, and - control means (76) for controlling the drive means (220) to change the position in space of the first sub-zone (301) along a sequence of locations around said inscribed sphere for so long and with such a frequency that the centre region of said inscribed sphere is heated.

IPC 8 full level
A61B 5/05 (2006.01); **A61N 1/40** (2006.01); **A61N 2/02** (2006.01); **A61N 2/06** (2006.01)

CPC (source: EP US)
A61B 5/05 (2013.01 - EP US); **A61B 5/0515** (2013.01 - EP US); **A61N 1/403** (2013.01 - EP US); **A61N 2/02** (2013.01 - EP US); **G01R 33/1276** (2013.01 - EP US)

Citation (search report)
See references of WO 2010128418A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
WO 2010128418 A1 20101111; CN 102421359 A 20120418; CN 102421359 B 20141029; EP 2427108 A1 20120314; JP 2012525900 A 20121025; JP 5750098 B2 20150715; RU 2011149781 A 20130620; RU 2536700 C2 20141227; US 2012058441 A1 20120308; US 9451900 B2 20160927

DOCDB simple family (application)
IB 2010051699 W 20100419; CN 201080020045 A 20100419; EP 10717814 A 20100419; JP 2012509119 A 20100419; RU 2011149781 A 20100419; US 201013319351 A 20100419